SEQUENCE LISTING

<110> MERKULOV, Gennady et al.

<120> ISOLATED HUMAN RAS-LIKE PROTEINS,
NUCLEIC ACID MOLECULES ENCODING THESE HUMAN RAS-LIKE
PROTEINS, AND USES THEREOF

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<141> 2001-03-29

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<213> Homo sapiens

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        35   40   45
Ala Asp Asp Thr Tyr Thr Glu Ser Tyr Ile Ser Thr Ile Gly Val Asp
    50   55   60
Phe Lys Ile Arg Thr Ile Glu Leu Asp Gly Lys Thr Ile Lys Leu Gln
65   70   75   80
Ile Trp Asp Thr Ala Gly Gln Glu Arg Phe Arg Thr Ile Thr Ser Ser
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Tyr Tyr Arg Gly Ala His Gly Ile Ile Val Val Tyr Asp Val Thr Asp
            100   105   110
Gln Glu Ser Phe Asn Asn Val Lys Gln Trp Leu Gln Glu Ile Asp Arg
        115   120   125
Tyr Ala Ser Glu Asn Val Asn Lys Leu Leu Val Gly Asn Lys Cys Asp
    130   135   140
Leu Thr Thr Lys Lys Val Val Asp Tyr Thr Thr Ala Lys Glu Phe Ala
145   150   155   160
Asp Ser Leu Gly Ile Pro Phe Leu Glu Thr Ser Ala Lys Asn Ala Thr
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Asn Val Glu Gln Ser Phe Met Thr Met Ala Ala Glu Ile Lys Lys Arg
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            20   25   30
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        35   40   45
Ala Asp Asp Thr Tyr Thr Glu Ser Tyr Ile Ser Thr Ile Gly Val Asp
    50   55   60
Phe Lys Ile Arg Thr Ile Glu Leu Asp Gly Lys Thr Ile Lys Leu Gln
65   70   75   80
Ile Glu Ser Phe Asn Asn Val Lys Gln Trp Leu Gln Glu Ile Asp Arg

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            100                 105                 110
Leu Thr Thr Lys Lys Val Val Asp Tyr Thr Thr Ala Lys Glu Phe Ala
        115                 120                 125
Asp Ser Leu Gly Ile Pro Phe Leu Glu Thr Ser Ala Lys Asn Ala Thr
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Asn Val Glu Gln Ser Phe Met Thr Met Ala Ala Glu Ile Lys Lys Arg
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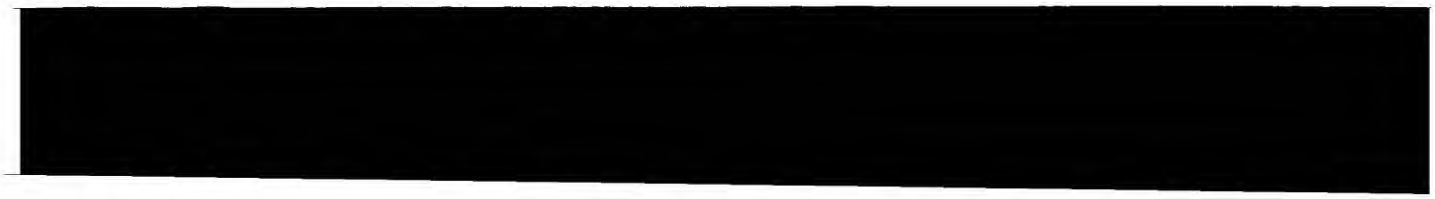

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<211> 601
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<220>
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<222> (301)...(301)
<223> 't' may be either present or absent

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<212> DNA
<213> Homo sapiens

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<212> DNA
<213> Homo sapiens

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a 601

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<220>
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<223> 'a' may be either present or absent

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<210> 20
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<212> DNA
<213> Homo sapiens

<220>
<221> variation
<222> (301)...(301)
<223> 't' may be either present or absent

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<210> 21
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<213> Homo sapiens

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tgccaccaca cccggctaat ttttgtagtt ttagtagaga cagggtttca ctatgttggc 480
caggctggcc tcaaactcct gacctcgtga tccacccacc tcagccaaat tgctgggatt 540
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g 601

<210> 22
<211> 601
<212> DNA
<213> Homo sapiens

<400> 22
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gaatgttaac tatcattatc aatattaaaa tgtgaaaatc tgagagtgac aaagcttagc 240
tttaaatctg gtatcccaaa ctcatttgag ttttttttttt ttttttttttt ttttgagac 300
raggtgtcgc tttgtccccc aggctggagt gtagtggtgt gatcttggct cactgcaacc 360
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gctgcgccac cacgcccagc taatttttg tatttatagt aaagacggag tttcacctta 480
ttggccaggc tggtctcaaa ctcctgatct tgtgatcctc ccgcctcggc ctcccaaagt 540
gctgggatta caggtgtgag ccactgttcc cggcctaatt tgagttttaa aatgtggagt 600
t 601

<210> 23
<211> 601
<212> DNA
<213> Homo sapiens

<400> 23
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aatctggtat cccaaactca tttgagtttt ttttttttttt ttttttttttt tgagacaagg 180
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ggattacagg tgtgagccac tgttcccggc ctaatttgag ttttaaaatg tggagtttaa 480
gatgttagtc ttaaagtggg ttagatgaaa tttataaaaa tagtcaaata gctaaattta 540
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a 601

<210> 24
<211> 601
<212> DNA
<213> Homo sapiens

<400> 24
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gctggagtgt agtggtgtga tcttggctca ctgcaacctc cacctcccag gttcaagtga 240
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aattttgtga aatatataat gtggataatt atgtagtgct ttatgtgtag attggtggtt 600
a 601

<210> 25
<211> 601
<212> DNA
<213> Homo sapiens

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attgctaggc tttgggagtt gtgacttgta tgatcatagt acttacaact attagttggc 600
a 601

<210> 26
<211> 601
<212> DNA
<213> Homo sapiens

<400> 26
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acaggtgtga gccaccgcgc ccagccaaat ttttattggt ttctaaacta gcgtaattta 540
gttttttttca cttaagtcaa aattatatta ttgtaggata aaaacttagt gatccaaatt 600
c 601

<210> 27
<211> 601
<212> DNA
<213> Homo sapiens

<400> 27
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ttctatcaac atttttactg tgtggtgttt tgtaaattat aaaaacgttt taaagcaaac 180
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gcaaagattg tcttatacag agcactcaat tcttcatatt atttataatg gctttaattt 480

[redacted]

aagccttaaa ttattagaaa ctcataaata attttttat ttgttttttt gagatggagt 540
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c 601

<210> 28
<211> 601
<212> DNA
<213> Homo sapiens

<400> 28
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ggcagcaagt taaaggggta gttggtggcc tgtgttgaaa gcgacttgat gaaaataaat 540
ctttaaatta aactttagta gaataaaaag aaaaagcaga gccaggtgac gcagtggatc 600
a 601

<210> 29
<211> 601
<212> DNA
<213> Homo sapiens

<220>
<221> variation
<222> (301)...(301)
<223> 'a' may be either present or absent

<400> 29
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tttctcagag catggaccaa agactcctgg gggttaccaa gaccctctca ggtagcccat 420
gaggtcaaaa tatcctaata atactaagat gttagtattt gtaaggaaat atttacttgg 480
taataatact aatataaaag atgtttgcgt ttttcagtga tgacattggc tctggtacaa 540
aagcatgtgg gtaaaattgc tgctggcttg gtacacatca aggcagcgct aagctccaaa 600
t 601

<210> 30
<211> 601
<212> DNA
<213> Homo sapiens

<400> 30
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[redacted]

cgtctggctc ccaggctcaa gctgttctcc cacttcagcc tcccaagtgg ctgggacctc 420
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cactgtgttg cacaggctgg tctcaaactt ctgagctcaa gcgatgcatg tgcctcagcc 540
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g 601

<210> 31
<211> 601
<212> DNA
<213> Homo sapiens

<400> 31
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gtatttttag tagagacagg gtttcaccat gttggccagg ctggtcttga actcctgatc 240
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t 601

<210> 32
<211> 601
<212> DNA
<213> Homo sapiens

<400> 32
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c 601

<210> 33
<211> 601
<212> DNA
<213> Homo sapiens

<400> 33
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accctgctaa ttttttgtat ttttagtaga gacagagttt caccatgttg gttaggctgg 540

tctcgaactc ctgacctcgt gatctgcctg actcggcttc ccaaagtgct gggattacag 600
g 601

<210> 34
<211> 601
<212> DNA
<213> Homo sapiens

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gcaccattgc accccagctt tggggacaga gtgagagacc ctgtctcaaa aacaaaataa 180
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tgccagttat ttttttatt tattcctagt gattcttctt tttttctttt ttctgagaca 420
aaaatttcac tttgtctccc tcgctagagt gcagcggtca gctcactaca tgattctttt 480
agagacatgt taattcttta tattgagctg aagcctgttt cttttacttc tgtctcttct 540
tattcctccg ccttgtagag ctgcctgaat cagattaatt cctcttttat tggcaagcct 600
g 601

<210> 35
<211> 601
<212> DNA
<213> Homo sapiens

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gttccaagag gagattgtgt tacagtgacc aagtaggaag ccattatttg attaatgtca 300
sattcattta ctacttcata tataagccat cagtattaat tttatggcag aaaactttgt 360
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agattagtaa ttagttttac gtttgctttc aagggattct ggttgtattt attgtcaact 480
aaataacttt gatcaaatag ccaagactct aacatatagg caagagtttg tagggaatcg 540
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a 601

<210> 36
<211> 601
<212> DNA
<213> Homo sapiens

<400> 36
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g 601

<210> 37
<211> 601
<212> DNA
<213> Homo sapiens

<400> 37
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caacagcgaa ggtatgttta aagtttaatt ttcatactga atttgaaggt gttgaattat 180
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c 601

<210> 38
<211> 601
<212> DNA
<213> Homo sapiens

<400> 38
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actgactttt tttttattcc cttgactcaa gacagctaac ttcattttca gaactgtttt 180
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aaaacaactg aagatatgtt taataaatat tgtacttatt ggaagtaata tcaaactgta 600
t 601

<210> 39
<211> 601
<212> DNA
<213> Homo sapiens

<400> 39
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taaacaggca attgaaatac atggtacaaa aataagtggt aagataattg taaaatgaaa 600
t 601

<210> 40
<211> 601
<212> DNA

[redacted]

<213> Homo sapiens

<400> 40
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attttggtga cattttgcat atatgaagat tttctgaaat aggaccttca agatcctagg 180
gggttttgtt tggtttttaa ttgtgaggaa taaaaaatct tctgcccaca ctggcatttt 240
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aatggacaga atattcaatt ttccatctat gaaaatttca caataaaaat catagtttac 540
tttgtattat aggcgtgctt ggtggatcta ttcatcctca cataaggcaa ctgacaaatt 600
c 601

<210> 41
<211> 7
<212> PRT
<213> Homo sapiens

<220>
<221> VARIANT
<222> (1)...(7)
<223> Xaa = Any Amino Acid

<400> 41
Gly Xaa Xaa Xaa Xaa Gly Lys
1 5

<210> 42
<211> 5
<212> PRT
<213> Homo sapiens

<400> 42
Asp Thr Ala Gly Gln
1 5

<210> 43
<211> 4
<212> PRT
<213> Homo sapiens

<220>
<221> VARIANT
<222> (1)...(4)
<223> Xaa = Any Amino Acid

<400> 43
Asn Lys Xaa Asp
1

<210> 44
<211> 5

<212> PRT
<213> Homo sapiens

<220>
<221> VARIANT
<222> (1)...(5)
<223> Xaa = Any Amino Acid

<400> 44
Glu Xaa Ser Ala Xaa
 1   5

<210> 45
<211> 4
<212> PRT
<213> Homo sapiens

<220>
<221> VARIANT
<222> (1)...(4)
<223> Xaa = Any Amino Acid

<400> 45
Cys Ala Ala Xaa
 1